



Qualified Products List

Issue 2007-1
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NOTICE

- Products appearing on this list have been pre-qualified by the Department for general use. Unless noted otherwise, these products may be used on Highway and Bridge projects, under the Section/Item Number indicated, without further testing.
- A Certificate of Compliance is required for these materials.
- A product that falls into one of these categories and is not listed shall not be used, unless qualified through written request to the NHDOT, Bureau of Materials & Research. Such request shall be made with sufficient lead-time to allow for any necessary testing and/or research.
- Products shall conform to NH Code of Administrative Rules Chapter Env-A 4200 AIM, available from the NH Department of Environmental Services or at http://des.nh.gov/ard/aim_coatings.htm. Inclusion of a product on this list does not imply that the product meets the above chapter or any other applicable State or Federal regulations related to safety or environmental issues in effect at the time.
- The manufacturer's Material Safety Data Sheet (MSDS) should be referred to before use of any product appearing on this list.
- Unless denoted otherwise in the plans or specifications, manufacturer recommendations related to preparation, application, coverage and shelf life shall be followed for all products appearing on this list.
- Report any failure, incompatibility or other problem associated with any product on this list to:

Research Supervisor, NHDOT Bureau of Materials & Research
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Fax: (603) 271-8700
E-mail: wreal@dot.state.nh.us

Table of Contents

<u>Section Number</u>	<u>Category</u>
403	A. Not currently used. B. ITEM 403.1109 - MODIFIER FOR HIGH STRENGTH HOT BITUMINOUS PAVEMENT C. ITEM 403.6 - PAVEMENT JOINT ADHESIVE
413	A. ITEM 413.1 - HOT POURED CRACK SEALANT (AASHTO M 324, Type II) B. ITEM 413.2 - HOT POURED CRACK SEALANT (LOW MODULUS, AASHTO M 324, Type IV modified)
510	A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES
520	A. FAST SET NON-SHRINK PATCHING MORTAR (For Bridge Deck Repairs) B. ACCELERATING ADMIXTURES C. AIR ENTRAINING ADMIXTURES D. WATER REDUCING ADMIXTURES E. RETARDING ADMIXTURES F. SUPERPLASTICIZERS (Type G) G. CORROSION INHIBITORS H. CURING COMPOUNDS I. BONDING AGENTS (Fresh Concrete to Hardened Concrete) J. BONDING AGENTS (Fresh Concrete to Steel) K. PLASTIC BEARING STRIP (For Expansion End) L. CLOSED CELL EXPANSION MATERIAL M. CLOSED CELL FILLER MATERIAL N. POLYMER-MODIFIED, 2-COMPONENT, FAST SETTING CONCRETE PATCH O. SELF-CONSOLIDATING CONCRETE ADMIXTURE
526	A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS B. ITEM 526.3 - HIGH MOLECULAR WEIGHT METHACRYLATE CRACK SEALER
529	A. ITEM 529.1 - HIGH STRENGTH, IMPACT RESISTANT, NON-SHRINK GROUT
530	A. ITEM 530.3 - CEMENT BASE WITH ACRYLIC LATEX (2 Coats) B. ITEM 530.3 - CEMENT BASE, POLYMER MODIFIED (2 Coats)
532	A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)
534	A. ITEM 534.1 - LINSEED OIL (Anti-spalling Compound) B. ITEM 534.3 - SILANE/SILOXANE C. ITEM 534.3 - SILANE/SILOXANE - COLD WEATHER
535	A. ITEM 535.1 - BITUMEN EPOXY WATERPROOFING
536	A. ITEM 536.11 - EPOXY COATING FOR CONCRETE (Mortar Coat/Seal Coat) B. ITEM 536.3 - HIGH BUILD, HIGH GLOSS, WHITE EPOXY COATING FOR CONCRETE
537	A. HIGH SOLIDS ACRYLIC SEALER (Two Coats) B. FERROUS STAIN REMOVER

Table of Contents (cont'd)

538	A. ITEMS 538.1 AND 538.2 - WARM WEATHER APPLICATION
	B. ITEM 538.2 - COOL WEATHER APPLICATION
	C. PROTECTION BOARD FOR BARRIER MEMBRANE
	D. ITEM 538.3 - BARRIER MEMBRANE, LIQUID SPRAY
	E. ITEM 538.4 - BARRIER MEMBRANE, HOT RUBBERIZED ASPHALT
	F. ITEM 538.5 - BARRIER MEMBRANE, WELDED BY TORCH
	G. ITEM 538.6 - BARRIER MEMBRANE, WELDED BY TORCH - MACHINE METHOD
	H. URETHANE LIQUID MEMBRANE
	I. MOISTURE METER (For concrete bridge decks)
	J. FIXED-ALIGNMENT ADHESION TESTER TYPE I
	K. FIXED-ALIGNMENT ADHESION TESTER TYPE II
541	A. ITEM 541.1 – WATERSTOP, NH TYPE 1
	B. ITEM 541.2 – WATERSTOP, NH TYPE 2
	C. ITEM 541.3 – WATERSTOP, NH TYPE 3
	D. ITEM 541.4 – WATERSTOP, NH TYPE 4
	E. ITEM 541.5 – WATERSTOP, NH TYPE 5
548	A. EPOXY ADHESIVE FOR BEARING PADS
550	A. FAST SETTING GROUTS FOR ANCHOR BOLTS (550.3.15.4)
	B. STICK WAX FOR HIGH STRENGTH A325 & A490 FASTENERS
	C. PREFORMED FABRIC BEARING PADS (550.2.6)
	D. ITEM 550.29 - BRIDGE SHOES (ISOLATION BEARINGS)
552	A. ITEM 552.2 - LUBRICATION (Lithium Base NGLI-2 Grade)
559	A. ITEM 559.4 - ELASTOMERIC PLUG TYPE EXPANSION JOINT
	B. ITEM 559.5 - SILICONE JOINT SEALANT
560	A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT
561	A. PREFAB. EXPANSION JOINT "TYPE A" (STRIP SEAL)
	B. PREFAB. EXPANSION JOINT "TYPE B" (BOX SEAL)
	C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)
562	A. ELASTOMERIC SEALANT (Vertical Joints)
	B. ELASTOMERIC SEALANT (Horizontal Joints)
563	A. ANCHOR BOLTS W/RESIN ADHESIVE
	B. AASHTO M 251 PADS
	C. RANDOM-ORIENTED FIBER PADS
566	A. ELASTOMERIC JOINT SEAL
581	A. ASPHALT-PRIMER (SOLVENT TYPE)
603	A. POLYETHYLENE (HDPE)
	B. POLYVINYL CHLORIDE (PVC)
604	A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
605	A. POLYETHYLENE (HDPE)
	B. POLYVINYL CHLORIDE (PVC)

Table of Contents (cont'd)

606	A. COMPOSITE MATERIAL BLOCKS
	B. ITEM 606.9512 - IMPACT ATTENUATION DEVICE (Redirective), Test Level 2
	C. ITEM 606.9513 - IMPACT ATTENUATION DEVICE (Redirective), Test Level 3
	D. ITEM 606.9522 - IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 2
	E. ITEM 606.9523 - IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 3
	F. ITEM 606.1454 - BEAM GUARDRAIL TERMINAL UNIT EAGRT, 50 FT (15.2m)
	G. ITEM 606.1455 - BEAM GUARDRAIL TERMINAL UNIT EAGRT, 25 FT. (7.6 m)
609	A. CEMENT MORTAR FOR BRIDGE CURB BEDDING
	B. POLYESTER FIBERS FOR BITUMINOUS CURB
616	A. SAW CUT LOOP SEALANT
619	A. TEMPORARY RAISED PAVEMENT MARKERS
632	A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)
	B. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, TYPE V
	C. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, TYPE VI
	D. ITEMS 632.81 & 632.82 - RAISED PAVEMENT MARKERS (SINGLE, DOUBLE FACE)
	E. Not currently used.
	F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)
645	A. ITEM 645.1 - MULCH
	B. ITEM 645.21 - SLOPE STABILIZATION (2:1 OR FLATTER)
	C. ITEM 645.22 - SLOPE STABILIZATION (STEEPER THAN 2:1)
	D. ITEM 645.23 - CHANNEL STABILIZATION (LOW VELOCITY)
	E. ITEM 645.24 - CHANNEL STABILIZATION (HIGH VELOCITY)
	F. ITEM 645.25 - PERMANENT STABILIZATION
	G. ITEM 645.531 - SILT FENCE
	H. TACKIFIERS
718	A. RETROREFLECTIVE SHEETING

SECTION 403 - HOT BITUMINOUS PAVEMENT

A. Not currently used

B. ITEM 403.1109 - MODIFIER FOR HIGH STRENGTH HOT BITUMINOUS PAVEMENT

Use only when specified.

Manufacturer:

American Gilsonite Co.

Product:

Gilsonite HMA Modifier (8% by weight of asphalt cement)

C. ITEM 403.6 - PAVEMENT JOINT ADHESIVE

Manufacturer:

Crafco, Inc.

Product:

Crafco Pavement Joint Adhesive

SECTION 413 - HOT-POURED CRACK SEALANT

A. ITEM 413.1 - HOT POURED CRACK SEALANT (AASHTO M 324, Type II)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer:

American Permaquik

Crafco Inc.

SemMaterials, L.P. (formerly Koch Mat'ls Co.)

The Pavement Depot/Dalton Enterprises

W.R. Meadows

Product:

Permaquik 6195

Road Saver 201

Product #9005

Crack-Rite HP3405

Hi-Spec

B. ITEM 413.2 - HOT POURED CRACK SEALANT (LOW MODULUS, AASHTO M 324, Type IV, modified)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer:

Bemac Products (McAsphalt Industries)

Crafco, Inc.

Deery American Corp.

SemMaterials, L.P. (formerly Koch Mat'ls Co.)

Product:

BERAM 195 Low Modulus

Road Saver 231

DAC Hot Poured Crack Sealant DAC 101

Product #9030

SECTION 510 - BEARING PILES

A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES

Conforming to AASHTO M 103 (ASTM A27), Grade 65-35 or ASTM A148, Grade 90-60

Manufacturer:

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Dougherty Foundation Prod., Inc.

Dougherty Foundation Prod., Inc.

Mid-America Foundation Supply

Piling Accessories, Inc.

Versabite Piling Accessories

Versa-Steel Inc.

Product:

Hard-Bite HP 77600-B

Hard-Bite HP 77750-B

Hard-Bite HP 7780-B *

Pruyn Point HP 75750-B

Tuftpuf Tufloy H-776 *

Tuftpuf Tufloy H-777 *

Model HPH **

Super-Bite PAR-T Series

Versa-Bite VB 300-P Series

Versa Steel VS-300N Series

* Available only in Grade 90-60

** Available only in Grade 65-35

SECTION 520 - PORTLAND CEMENT CONCRETE

A. FAST SET NON-SHRINK PATCHING MORTAR (For Bridge Deck Repairs)

<u>Manufacturer:</u>	<u>Product:</u>
BASF (Master Builders, Inc.)	10-60 Rapid Mortar
Conspec Marketing & Manufacturing	Pave Patch 3000
Five Star Products	Structural Concrete
Five Star Products	Structural Concrete V/O Patch **
Silpro Masonry Systems	Fastcrete *

* High Early Strength (1000 psi minimum at 1 hour - lab)

** Recommended also for vertical/overhead patching

B. ACCELERATING ADMIXTURES

Contact the Concrete Supervisor at Materials & Research (603-271-3151) for products when required.

C. AIR ENTRAINING ADMIXTURES

<u>Manufacturer:</u>	<u>Product:</u>
BASF (formerly Master Builders, Inc.)	MB AE 90 *
BASF (formerly Master Builders, Inc.)	Micro-Air *
Sika Corporation	Sika Air *
W.R. Grace & Co.	Daravair 1000 *
W.R. Grace & Co.	Daravair AT60 *
W.R. Grace & Co.	Darex II *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

D. WATER REDUCING ADMIXTURES

<u>Manufacturer:</u>	<u>Product:</u>
BASF (Formerly Degussa Admixtures, Inc.)	Glenium 3400 NV *
BASF (Formerly Degussa Admixtures, Inc.)	PolyHeed 1020
BASF (formerly Master Builders)	PolyHeed 1025
BASF (formerly Master Builders, Inc.)	Polyheed 997 (Midrange) *
BASF (formerly Master Builders, Inc.)	Pozzolith 200N *
BASF (formerly Master Builders, Inc.)	Pozzolith 220N *
BASF (formerly Master Builders, Inc.)	Rheobuild 1000 *
W.R. Grace & Co.	Adva 100 *
W.R. Grace & Co.	Daracem 55 (Midrange) *
W.R. Grace & Co.	Daracem 65 (Midrange) *
W.R. Grace & Co.	WRDA/HYCOL *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

E. RETARDING ADMIXTURES

<u>Manufacturer:</u>	<u>Product:</u>
BASF (formerly Master Builders, Inc.)	Pozzolith 100XR *
BASF (formerly Master Builders, Inc.)	Pozzolith 122R *
W.R. Grace & Co.	Daratard 17 *

*These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.

Section 520 - continued

F. SUPERPLASTICIZERS (Type G)

<u>Manufacturer:</u>	<u>Product:</u>
BASF (formerly Master Builders, Inc.)	Rheobuild 716 I *
W R Grace	ADVA 170 *
W.R. Grace	ADVA 140 *
W.R. Grace & Co.	Daracem 100 *

**These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.*

G. CORROSION INHIBITORS

<u>Manufacturer:</u>	<u>Product:</u>
BASF (formerly Master Builders, Inc.)	Rheocrete CNI *
Sika Corp	CNI *
W.R. Grace & Co.	DCI *
W.R. Grace & Co.	DCI-S *

**These concrete admixtures must be tested through the AASHTO NTPEP program by January 2008 to remain on the Qualified Products List.*

H. CURING COMPOUNDS

See specifications for limitations regarding the use of curing compounds.

<u>Manufacturer:</u>	<u>Product:</u>
Bonsal American	Bonsal Curing Compound
Dayton Superior	D.S.S.C.C. White Resin Cure
L&M Construction Chemicals Inc.	Cure R (w/fugitive dye)
Poly Sat Inc.	Harris Super Konkure White

I. BONDING AGENTS (Fresh Concrete to Hardened Concrete)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

<u>Manufacturer:</u>	<u>Product:</u>
BASF (formerly Master Builders, Inc.)	Concresive Liquid LPL

J. BONDING AGENTS (Fresh Concrete to Steel)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

<u>Manufacturer:</u>	<u>Product:</u>
Sika Corp	Armatex 110

K. PLASTIC BEARING STRIP (For Expansion End)

<u>Manufacturer:</u>	<u>Product:</u>
Korolath of New England	Korolath PE (Contact Cement - Sikadur 31 Hi-Mod Gel)

L. CLOSED CELL EXPANSION MATERIAL

Use only when specified.

<u>Manufacturer:</u>	<u>Product:</u>
E-poxy Engineered Materials, LLC	Evazote 380 E.S.P. (w/ Eva-Pox Bonder No. 1)

M. CLOSED CELL FILLER MATERIAL

<u>Manufacturer:</u>	<u>Product:</u>
Dow Corning Corp.	STYROFOAM
Owens Corning	Foamular 250

Section 520 – continued

N. POLYMER-MODIFIED, 2-COMPONENT, FAST SETTING CONCRETE PATCH

Use only when specified.

Manufacturer:

Sonneborn Building Prods./ChemRex

Product:

Sonopatch 200 with Sonocrete Acrylic Ad.

O. SELF-CONSOLIDATING CONCRETE ADMIXTURE

Contact the Concrete Supervisor at Materials & Research (603-271-3151) for products when required.

SECTION 526 - CONCRETE CRACK SEALERS

A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS

Manufacturer:

BASF (formerly Master Builders, Inc.)

Dayton Superior

Dural International (TammsInd.)

E-Poxy Industries, Inc.

Hilti, Inc.

Sika Corp (Cool Weather)

Sika Corp. (Warm Weather)

Sinmast

Product:

Concresive 1380

Sure-Inject J-56

Duralcrete

Injection Resin #4

Hilti CI 060 EP Crack Injection System

Sikadur 52

Sikadur 35

Sinmast Product #2

B. ITEM 526.3 - HIGH MOLECULAR WEIGHT METHACRYLATE CRACK SEALER

Manufacturer:

Sika Corp

Product:

SikaPronto 19

SECTION 529 - PRESTRESSED CONCRETE BRIDGE DECK

A. ITEM 529.1 - HIGH STRENGTH, IMPACT RESISTANT, NON-SHRINK GROUT

Manufacturer:

Conspec Marketing & Manufacturing Co.

Dayton Superior

Sonneborn Building Products/ChemRex

Product:

Conspec 100 Non-Shrink Non-Metallic Grout

Suregrip High Performance Grout

SonogROUT 14K Hy Flow

SECTION 530 - WATERPROOFING CONCRETE SURFACES

A. ITEM 530.3 - CEMENT BASE WITH ACRYLIC LATEX (2 Coats)

Manufacturer:

BASF (Formerly Degussa)

Tamms Industries

Product:

Thoroseal (Pearl Gray) w/Acryl 60

Tamoseal (Oyster Gray) w/AKKRO-7T

B. ITEM 530.3 - CEMENT BASE, POLYMER MODIFIED (2 Coats)

Manufacturer:

BASF (Formerly Degussa)

Flexcrete Limited

Tamms Industries

Product:

ThoRoc Cement Coating (Gray)

Silcabond FCR 851 (Gray)

Duraltop Coating (Gray)

SECTION 532 - ANTI-GRAFFITI COATINGS

A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)

Manufacturer:

Professional Products of Kansas, Inc.

Product:

PROFESSIONAL Water Sealant Anti-Graffiti *, GRAFFITI FREE cleaner

* Coat #1 - Super-strength (15% solids), Coat #2 - Extra-strength (8% solids) or Super-strength, in accordance with manufacturer's recommendations

SECTION 534 - WATER REPELLENT

A. ITEM 534.1 - LINSEED OIL (Anti-spalling Compound)

Manufacturer:

A.H. Harris and Sons, Inc.

Dayton Superior

Tamms Industries

Product:

Harris Super Antispall Voc

Day-Chem Anti-Spall (J-33)

Tri-Dar 66/1A *

* The VOC content of this product exceeds currently allowed levels. This product may only be used if manufactured prior to January 1, 2007 and if within manufacturer's specified shelf life.

B. ITEM 534.3 - SILANE/SILOXANE

These products can be used when ambient and surface temperatures are 40 degrees and above.

Manufacturer:

Advanced Chemical Technologies, Inc.

Degussa (formerly Sivento)

ProSoCo, Inc.

ProSoCo, Inc.

Vexcon Chemicals, Inc.

Product:

Sil-Act ATS 42 *

Protectosil BH-N

SL 100

SLX100

Powerseal 40

* The VOC content of this product exceeds currently allowed levels. This product may only be used if manufactured prior to January 1, 2007 and if within manufacturer's specified shelf life.

C. ITEM 534.3 - SILANE/SILOXANE - COLD WEATHER

These products can be used when ambient and surface temperatures are 20 degrees and above.

Manufacturer:

Sivento Inc.

Product:

Chem-Trete BSM 40 VOC *

* The VOC content of this product exceeds currently allowed levels. This product may only be used if manufactured prior to January 1, 2007 and if within manufacturer's specified shelf life.

SECTION 535 - EPOXY WATERPROOFING

A. ITEM 535.1 - BITUMEN EPOXY WATERPROOFING

Manufacturer:

Anti-Hydro Company

Kop-Coast Div./Carboline

Tamms Industries

Product:

A-H Coal Tar Epoxy 210

Bitumastic 300-M

Dural 306

SECTION 536 - EPOXY COATING FOR CONCRETE

A. ITEM 536.11 - EPOXY COATING FOR CONCRETE (Mortar Coat/Seal Coat)

Manufacturer:

Dural International (TAMMS Ind.)

Sika Corporation

Product:

Flexocrete Gel/Dural 304

Sikadur 23 LM Gel/Sikagard 62

Section 536 – continued

B. ITEM 536.3 - HIGH BUILD, HIGH GLOSS, WHITE EPOXY COATING FOR CONCRETE

<u>Manufacturer:</u>	<u>Product:</u>
Dural International (Tamms)	Duralkote
Kaufman Products Inc.	Sure-Poxy Hi-Bild
Sika Corporation	Sikagard 62

SECTION 537 - CONCRETE SEALER

A. HIGH SOLIDS ACRYLIC SEALER (Two Coats)

<u>Manufacturer:</u>	<u>Product:</u>
A.H. Harris and Sons, Inc.	Certi-vex AC1315 *
Silpro Corporation	Crete Seal
Tamms	Luster Seal 300 *

* The VOC content of this product exceeds currently allowed levels. This product may only be used if manufactured prior to January 1, 2007 and if within manufacturer's specified shelf life.

B. FERROUS STAIN REMOVER

<u>Manufacturer:</u>	<u>Product:</u>
ProSoCo	Sure-Klean Ferrous Remover

SECTION 538 - BARRIER MEMBRANE

A. ITEMS 538.1 AND 538.2 - WARM WEATHER APPLICATION

(Temp. 40 Degs. F and rising)

<u>Manufacturer:</u>	<u>Product:</u>
Royston Laboratories	10 AN Easy Pave, 713A Primer, 104CM Mastic

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

B. ITEM 538.2 - COOL WEATHER APPLICATION

(Temp. 25 Degs F and rising)

<u>Manufacturer:</u>	<u>Product:</u>
Protecto Wrap Co.	Jiffy Seal 140/60 Cold Weather, VOC 100 Primer, 160H Mastic
Royston Laboratories Inc.	104-AHT, 740 Primer, 104CM Mastic
W.R. Meadows Inc.	Seal Tight Mel-Rol, MEL-Prime VOC Solvent Base Primer, Elastomeric Mastic
W.R.Grace & Co	Lo Temp Membrane, Bituthene Primer B2, Bituthene Mastic

C. PROTECTION BOARD FOR BARRIER MEMBRANE

(Use on membraned surfaces to be backfilled against)

<u>Manufacturer:</u>	<u>Product:</u>
-	1.0" Closed-Cell Extruded Polystyrene Board
-	1/2" 100% Bituminous Impregnated Fiber Board
W.R. Grace & Co.	Bituthene Asphaltic Hardboard
W.R. Meadows	Sealtight Melnar
W.R. Meadows	Sealtight PC-2

D. ITEM 538.3 - BARRIER MEMBRANE, LIQUID SPRAY

<u>Manufacturer:</u>	<u>Product:</u>
Stirling Lloyd Products	Eliminator, PAR 1 Primer, SA 1030 Tack Coat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

Section 538 – continued

E. ITEM 538.4 - BARRIER MEMBRANE, HOT RUBBERIZED ASPHALT

(For use along curb line with Items 538.5 and 538.6)

Manufacturer:

Bemac Products (McAsphalt)
Henry Company
Hydrotech Membrane Corp.
Permaquik Corp.
Ultraseal Construction Products
Watson Bowman Acme Corporation

Product:

Bemalastic 1213 B.D.M.
790-11 MTO Grade
Hydrotech BDM
PQ 6100 BM
Ultraseal 3750
Wabo Expandex

F. ITEM 538.5 - BARRIER MEMBRANE, WELDED BY TORCH

Manufacturer:

IKO Industries Ltd
Soprema Roofing & Waterproofing Inc.

Product:

Armour Bridge/Pont 4.5 mm *
Sopralene Flam Antirock Membrane, Antirock Primer & Tackcoat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

** Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.*

G. ITEM 538.6 - BARRIER MEMBRANE, WELDED BY TORCH - MACHINE METHOD

Manufacturer:

IKO Industries Ltd
Soprema Roofing & Waterproofing Inc.

Product:

Armour Bridge/Pont 4.5 mm *
Sopralene Flam Antirock Membrane, Antirock Primer & Tackcoat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

** Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.*

H. URETHANE LIQUID MEMBRANE

Use only when specified.

Manufacturer:

Gates Manufacturing
W.R. Grace & Co.

Product:

Gacoflex LM60
Bituthene LM-3000

I. MOISTURE METER (For concrete bridge decks)

Manufacturer:

Sovereign Chemical Industries, Ltd.
Tramex, Ltd

Product:

Dual Probe Moisture Master
Tramex Concrete Encounter

J. FIXED-ALIGNMENT ADHESION TESTER TYPE I

Manufacturer:

Proceq SA

Product:

Proceq Dyna Z6 Pull Off Tester with digital manometer *

** For testing of membrane and substrate as specified. Requires 50 mm test discs.*

K. FIXED-ALIGNMENT ADHESION TESTER TYPE II

Manufacturer:

Elcometer Instruments, Ltd

Product:

Elcometer 106 Adhesion Tester, Scale 1

** For testing of substrate as specified. Requires 20 mm test discs.*

SECTION 541 - WATERSTOPS (PVC)

A. ITEM 541.1 - NH TYPE 1

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

781 (Ribbed), 721 (Ribbed Split), 741 (Dumbbell)
FR-4316 (Ribbed)
300 (Ribbed Split), DB-8 (Dumbbell)
RB4-316 (Ribbed), RSB4-316 (Ribbed Split), D4-316 (Dumbbell)
8036 (Ribbed Split), 8040 (Dumbbell)

Section 541 - continued

B. ITEM 541.2 - NH TYPE 2

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

703 (Ribbed), 723 (Ribbed Split)
CR-6316 (Ribbed), SR-6316 (Ribbed Split)
4B (Ribbed), 400 (Ribbed Split)
RB6-316 (Ribbed), RSB6-316 (Ribbed Split)
8021 (Ribbed), 8032 (Ribbed Split)

C. ITEM 541.3 - NH TYPE 3

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

780 (Ribbed), 757 (Dumbbell)
CR-6380 (Ribbed), SR-6380 (Ribbed Split)
4C (Ribbed), 400C (Ribbed Split)
RB6-14 (Ribbed), RSB6-14 (Ribbed Split), DBG-14 (Dumbbell)
8068 (Ribbed), 8028 (Dumbbell)

D. ITEM 541.4 - NH TYPE 4

Manufacturer:

Greenstreak
Tamms
Vinylex
Vulcan

Product:

696 (Ribbed), 753 (Ribbed Split)
7F (Ribbed), DB-6 (Dumbbell)
RLB9-38 (Ribbed), DB9-38 (Dumbbell), DSB9-38 (Dumbbell)
8077 (Ribbed), 8031 (Dumbbell)

E. ITEM 541.5 - NH TYPE 5

Manufacturer:

Greenstreak
Vinylex

Product:

769 (Ribbed)
L85-14 (Ribbed)

SECTION 548 - ELASTOMERIC BEARING PADS

A. EPOXY ADHESIVE FOR BEARING PADS

Manufacturer:

Delta Plastics Co.
Sika Corp.

Product:

Delta AS23-18 A&B Gel Type Epoxy Adhesive
Sikadur 32, Hi-Mod LPL Structural Epoxy Adhesive

SECTION 550 - STRUCTURAL STEEL

A. FAST SETTING GROUTS FOR ANCHOR BOLTS (550.3.15.4)

Manufacturer:

Dayton Superior
Minwax Construction Products Division

Product:

Sure Grip Utility Grout
Super Por Rok

B. STICK WAX FOR HIGH STRENGTH A325 & A490 FASTENERS

Manufacturer:

Castrol Industrial of North America
CRC Industries, Inc.
Relton

Product:

Stick Wax Lubricant
TrueTap Wax Stick
Stick Kut

Section 550 - continued

C. PREFORMED FABRIC BEARING PADS (550.2.6)

<u>Manufacturer:</u>	<u>Product:</u>
Beemer Precision Co.	Beeco Preformed Fabric, Type 1
Boston Industrial	Viblon
Buckeye Rubber Products	Buckfab
Con-Serv	PF Preformed Fabric Pad
Elkhart Rubber	Shockpad
Fabreeka Products Co.	Fabreeka Bearing Pad
JVI Inc.	Carpralon
Voss Engineering	Sorbtex

D. ITEM 550.29 - BRIDGE SHOES (ISOLATION BEARINGS)

<u>Manufacturer:</u>	<u>Product:</u>
Dynamic Isolation Systems, Inc.	Elastomeric Isolator
Earthquake Protection Systems, Inc.	Friction Pendulum
R.J. Watson, Inc.	EQS Bearing
Seismic Energy Products, L.P.	Elastomeric Isolator
Skellerup Oiles Seismic Protection, LLC	Elastomeric Isolator

SECTION 552 - REHABILITATION OF EXPANSION BRIDGE SHOES

A. ITEM 552.2 - LUBRICATION (Lithium Base NGLI-2 Grade)

<u>Manufacturer:</u>	<u>Product:</u>
Exxon	Beacon P 290
Texaco	Marfax (All Purpose)

SECTION 559 - JOINT SEAL

A. ITEM 559.4 - ELASTOMERIC PLUG TYPE EXPANSION JOINT

<u>Manufacturer:</u>	<u>Product:</u>
Dynamic Surface Applications, Ltd	BJS with Road Repair Systems Material: BJ Super
Dynamic Surface Applications, Ltd.	Thorma-Joint with Road Repair Systems Material: BJ Super
Pavetech International, Inc.	Matrix 502 with Matrix 502 Polymer-Modified Bridge Joint Binder
Watson Bowman Acme/Harris Specialty Chem	Expandex Joint with Wabo Expandex Material
Wyoming Equipment Sales, Inc.	A.P.J. Asphalt Plug Expansion Joint System with APB binder

B. ITEM 559.5 - SILICONE JOINT SEALANT

The use of primer is required with these products unless waived by the Engineer.

<u>Manufacturer:</u>	<u>Product:</u>
Dow Corning Corp.	Dow Corning 888 (Non-sag, for vertical and horizontal joints)
Dow Corning Corp.	Dow Corning 890-SL (Self-leveling, for horizontal joints only)

SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

<u>Manufacturer:</u>	<u>Product:</u>
D.S. Brown	Elastic "CV" Series
Elastomer	"M" and "X" Series
RUBATEX	"RPB" Series
Structural Accessories	"SA" Series
Watson, Bowman & Acme	"WJ" Series

SECTION 561 - PREFABRICATED EXPANSION JOINT

A. PREFAB. EXPANSION JOINT "TYPE A" (STRIP SEAL)

Manufacturer:

D.S. Brown
ESCO Seal
Structural Accessories
Watson Bowman Acme

Product:

"A2, L2, H & NY" Series (SSA2, SSE2, SSCM2, SSPA steel shapes only)
E, A, M, C steel shapes only
"Onflex" Series
"SE" Series

B. PREFAB. EXPANSION JOINT "TYPE B" (BOX SEAL)

Manufacturer:

D.S. Brown
Watson, Bowman & Acme

Product:

"MA" Series
"D" Series

C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)

Manufacturer:

Fabreeka Products Co.
Thermoid of H.B.D. Industries, Inc
Voss Engineering

Product:

Flexible Drain Trough
3-ply PNT 50 Saniwhite 3/64 x FS
15 oz. Flexible Drain Trough

SECTION 562 - ELASTOMERIC SEALANT

A. ELASTOMERIC SEALANT (Vertical Joints)

Contact the Bureau of Materials & Research, tel. 603-271-3151, if this product category is required.

B. ELASTOMERIC SEALANT (Horizontal Joints)

Contact the Bureau of Materials & Research, tel. 603-271-3151, if this product category is required.

SECTION 563 - BRIDGE RAILING

A. ANCHOR BOLTS W/RESIN ADHESIVE

Products are qualified based on a review of ICC-ES (www.icc-es.org) Evaluation Reports for the following ultimate capacities (embedment depth of 9 times the nominal anchor diameter): 3/4" dia. (28.4 kips), 7/8" dia. (39.25 kips), and 1" dia. (51.5 kips).

Manufacturer shall certify that the supplied system (materials, size, embedment, capacity) meets the design requirements specified.

Manufacturer:

Adhesives Technology Corp (fmrlly US Anchor)
Hilti, Inc.
Hilti, Inc.
Simpson Strong-Tie
Unitex
Unitex
Unitex

Product:

HS-200
HIT-RE 500
HSE 2421
SET High Strength Epoxy
Pro-Poxy 300
Pro-Poxy 300 Fast
Pro-Poxy 400

Note: Random proof test(s) of installed systems will be ordered by the Engineer.

B. AASHTO M 251 PADS

Manufacturer:

WARCO

Product:

50-E-52 (Neoprene) Pad

C. RANDOM-ORIENTED FIBER PADS

Manufacturer:

Fabreeka International
JVI
Voss Engineering Inc.

Product:

SA-47 Bearing Pads
Comcord Pads
VOSSCO

SECTION 566 - ELASTOMERIC JOINT SEAL

A. ELASTOMERIC JOINT SEAL

See qualified list for Section 560.

SECTION 581 - BRICK AND BLOCK MASONRY

A. ASPHALT-PRIMER (SOLVENT TYPE)

Manufacturer:
Tamms Industries

Product:
Dehydratine #4

Qualified Products List



A. ITEM 593.ABC - GEOTEXTILES

A = Application

1 = Subsurface Drainage

2 = Separation

3 = Stabilization

4 = Permanent Erosion Control

B = Strength Class

0 = Class 0 (Extra High Strength)

1 = Class 1 (High Strength)

2 = Class 2 (Medium Strength)

3 = Class 3 (Low Strength)

C = Structure

0 = Contractor Option

1 = Nonwoven (Default - Applic. 1 & 4)

2 = Monofilament, Woven

3 = Slit Filament, Woven

Manufacturer & Product		QUALIFIED FOR		
		A	B	C
		Application	Strength Class	Structure
Belton Industries, Inc				
	Beltech 315, Style 977	2,3	1,2,3	3
Carthage Mills				
	FX-60HS	1,2,3,4	2,3	1
	Carthage 6%	2,3	2,3	2
GSE Lining Technologies, Inc.				
	NW4	1,2,3	3	1
	NW6	1,2,3,4	2,3	1
	NW8	1,2,3,4	1,2,3	1
LINQ Industrial Fabrics, Inc.				
	160EX	1,2,3,4	2,3	1
	180EX	1,2,3,4	2,3	1
Propex, Inc. (formerly Amoco Fabrics & Fiber Co.)				
Propex, Inc. (formerly SI Geosolutions)	Geotex 250ST	2,3	2,3	3
	Geotex 104F	2,3	3	2
	501	1,2,3	3	1
	601	1,2,3,4	2,3	1
	701	1,2,3,4	2,3	1
	801	1,2,3,4	2,3	1

Qualified Products List



A. ITEM 593.ABC - GEOTEXTILES (Cont'd)

A= Application

- 1 = Subsurface Drainage
- 2 = Separation
- 3 = Stabilization
- 4 = Permanent Erosion Control

B = Strength Class

- 0 = Class 0 (Extra High Strength)
- 1 = Class 1 (High Strength)
- 2 = Class 2 (Medium Strength)
- 3 = Class 3 (Low Strength)

C = Structure

- 0 = Contractor Option
- 1 = Nonwoven (Default - Applic. 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

Manufacturer & Product		QUALIFIED FOR		
		A	B	C
		Application	Strength Class	Structure
Skaps Industries				
	GT142	1,2,3	3	1
	GT160	1,2,3,4	2,3	1
	GT170	1,2,3,4	2,3	1
	GT180	1,2,3,4	1,2,3	1
TenCate Geosynthetics		Application	Strength Class	Structure
	Mirafi 600X / Polyfelt PP15	2,3	1,2,3	3
	Mirafi 500X / Polyfelt PP10	2,3	3	3
	Mirafi 180N / Polyfelt TN80	1,2,3,4	2,3	1
	Polyfelt TN45	1,2,3	3	1
	Mirafi FW404 / Polyfelt PW44	2,3	1,2,3	3
	Mirafi 160N / Polyfelt TN60	1,2,3,4	2,3	1
	Mifafi 550X	2,3	2,3	3
US Fabrics, Inc.		Application	Strength Class	Structure
	US 670	2,3	2,3	2
	US 160NW	1,2,3,4	2,3	1
	US 180NW	1,2,3,4	2,3	1
WEBTEC, Inc.		A	B	C
		Application	Strength Class	Structure
	Terratex GS-250	2,3	2,3	3
	Terratex N07	1,2,3,4	2,3	1
	Terratex N08	1,2,3,4	1,2,3	1

SECTION 603 - CULVERTS AND STORM DRAINS

A. POLYETHYLENE (HDPE)

Qualified Manufacturers:

Manufacturer:

Advanced Drainage Systems, Inc.
Baughman Tile Co.
Blue Diamond Industries, LLC
Crumpler Plastic Pipe, Inc.
Hancor, Inc.
Haviland Drainage Products
Lane Enterprises, Inc.
Solenio, Inc.

B. POLYVINYL CHLORIDE (PVC)

Qualified Manufacturers:

Manufacturer:

Contech Construction Products

SECTION 604 - CATCH BASINS, DROP INLETS, AND MANHOLES

A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES

Note: Use of fiber reinforcement is only allowed for drainage structures with a maximum diameter of 4'.

Manufacturer:

W.R. Grace
Forta Corporation

Product:

Strux 90/40 Fibers
Forta Ferro

SECTION 605 - UNDERDRAINS

A. POLYETHYLENE (HDPE)

Qualified Manufacturers:

Manufacturer:

Advanced Drainage Systems, Inc.
Baughman Tile Co.
Blue Diamond Industries, LLC
Crumpler Plastic Pipe, Inc.
Hancor, Inc.
Haviland Drainage Products
Lane Enterprises, Inc.
Solenio, Inc.

B. POLYVINYL CHLORIDE (PVC)

Qualified Manufacturers:

Manufacturer:

Contech Construction Products

SECTION 606 - GUARDRAIL

A. COMPOSITE MATERIAL BLOCKS

Use only when specified.

Contact Materials & Research (603-271-3151) for products when required.

B. ITEM 606.9512 - IMPACT ATTENUATION DEVICE (Redirective), Test Level 2

Manufacturer:

Barrier Systems, Inc
Energy Absorption Systems, Inc
Work Area Protection Corp.

Product:

Universal Tau-II
Quadguard
SCI200 GM

C. ITEM 606.9513 - IMPACT ATTENUATION DEVICE (Redirective) Test Level 3

Manufacturer:

Barrier Systems, Inc.
Energy Absorption Systems, Inc
Work Area Protection Corp.

Product:

Universal Tau-II
QuadGuard
SCI200 GM

D. ITEM 606.9522 - IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 2

Sand or liquid filled devices may be used when allowed by specification.

Manufacturer:

Energy Absorption Systems, Inc.

Product:

N.E.A.T.

E. ITEM 606.9523 - IMPACT ATTENUATION DEVICE (Non-redirective), Test Level 3

Sand or liquid filled devices may be used when allowed by specification. When sand or liquid filled devices are not allowed by specification, use a product listed under "C. ITEM 606.9513 - IMPACT ATTENUATION DEVICE (Redirective) Test Level 3."

F. ITEM 606.1454 - BEAM GUARDRAIL TERMINAL UNIT EAGRT, 50 FT (15.2m)

Manufacturer:

Road Systems, Inc
Trinity Industries, Inc.

Product:

SKT 350
ET-Plus (formerly ET-2000 Plus)

G. ITEM 606.1455 - BEAM GUARDRAIL TERMINAL UNIT EAGRT, 25 FT. (7.6 m)

Manufacturer:

Road Systems, Inc
Trinity Industries, Inc

Product:

SKT 350
ET-2000 Plus

SECTION 609 - CURBS

A. CEMENT MORTAR FOR BRIDGE CURB BEDDING

Manufacturer:

AH Harris
BASF (formerly Master Builders, Inc.)
Conspc Marketing & Manufacturing Co.
Dayton Superior
Dayton Superior
Five Star Products

Product:

Harris Construction Grout
Set Grout
Enduro #50
1107 Advantage Grout
Sure-Grip High Performance Grout
Structural Concrete

B. POLYESTER FIBERS FOR BITUMINOUS CURB

Manufacturer:

Advanced Fiber Solutions, Inc
GFC Materials Co.
Kapejo Inc.
Specialty Fibers Direct

Product:

P440 Fibers, White or Black
Petroflex Type 450
Boni Fibers Type B
P440 Fiber, Black or White

SECTION 616 - TRAFFIC SIGNALS

A. SAW CUT LOOP SEALANT

Manufacturer:

3M
BASF (Formerly Degussa)
Chemque, Inc.
Chemque, Inc.
Dynatron/Bondo Corp.
RAI Products
RAI Products
Statler Paints

Product:

Loop Sealant
Gold Label All Season Loop Sealant (formerly Gold Label Loop Sealant)
Q-Seal 290S Detector Loop Sealant
Q-Seal 296-06 Detector Loop Sealant
Bondo P-606 Detector
Permanent Sealer 974
Pro-Seal 6006
Stat-A-Flex Poly Seal

SECTION 619 - MAINTENANCE OF TRAFFIC

A. TEMPORARY RAISED PAVEMENT MARKERS

Manufacturer:

Astro Optics Corp.
Filtrona Extrusion (Davidson)
Filtrona Extrusion (Davidson)

Product:

Model TPM
RPM Durable Pavement Marker
TOM Road Marker

SECTION 632 - RETROREFLECTIVE PAVEMENT MARKINGS

A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)

Manufacturer:

3M
Advance Traffic Markings
Brite-Line Technologies, Inc.
Lafarge Road Marking
Trelleborg Industries
Trelleborg Industries

Product:

Series 620
ATM 200 Removable Construction Grade
Brite-Line Series 100 Removable Tape
Prismoline TRT Series T-2512
Trelleborg Removable Road Tape RY-140 (Yellow)
Trelleborg Removable Road Tape RW-140 (White)

B. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, TYPE V

Note: This category is for longitudinal lines, legends, and symbols, except for the word "ONLY" and arrows.

Manufacturer:

3M
Brite-Line Technologies, Inc.

Product:

Series 380-I
Brite-Line Series 1000 Durable Tape

C. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, TYPE VI

Note: This category is for transverse markings, and the word "ONLY" and arrows.

Manufacturer:

3M
Brite-Line Technologies, Inc.

Product:

Series 380-I
Brite-Line Series 1000 Durable Tape

D. ITEMS 632.81 & 632.82 - RAISED PAVEMENT MARKERS (SINGLE, DOUBLE FACE)

Manufacturer:

Astro Optics Corp.
Filtrona Extrusion (Davidson)

Product:

Model TPM
RPM Durable Pavement Marker

E. Not currently used.

F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)

Note: This category is for temporary obliteration of pavement markings.

Manufacturer:

Advance Traffic Markings
Brite-Line Technologies, Inc.
Swarco Industries, Inc.
Trelleborg Industries

Product:

ATM 280 Hide A Line
Deltaline BTR
Director 2 Blackout Removable Tape
Trelleborg Removable Tape RB-140

SECTION 645 - EROSION CONTROL

A. ITEM 645.1 - MULCH

Manufacturer:

Product:

Outdoor World of New England

Kid Kushion Playground Mulch

Contact Roadside Development Section, Bureau of Highway Design, 603-271-6476

B. ITEM 645.21 - SLOPE STABILIZATION (2:1 OR FLATTER)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476.

Manufacturer:

Product:

American Excelsior Company
American Excelsior Company
American Excelsior Company
American Excelsior Company
Conwed Fibers
East Coast Erosion Blankets, LLC
East Coast Erosion Blankets, LLC
Greenfix America
Greenfix America
Hydrograss Corp.Com
North American Green
North American Green
North American Green
North American Green
North American Green
North American Green
North American Green
PPS Packaging Co. (Western Excelsior)
Rhino Seed & Landscape Supply
SI Geosolutions (formerly Bonterra America)
SI Geosolutions (formerly Bonterra America)
Verdyol Plant Reasearch, LTD
Verdyol Plant Reasearch, LTD
Verdyol Plant Reasearch, LTD
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation

AEC Premier Straw DN (formerly SS-G2) (2:1 or less)
AEC Premier Straw Double Net Quick Mow (formerly SS-W2) (2:1 or less)
AEC Premier Straw Single Net Quick Mow (formerly SS-W1) (3:1 or less)
AEC Premier Straw SN (formerly SS-G1)(3:1 or less)
Futerra
ECS-1
ECS-2
WS05 (3:1 or less)
WS052 (3:1 or less)
Straw Erosion Blanket II BN
DS150
DS75 (3:1 or less)
S150
S150BN
S75 (3:1 or less)
S75BN (3:1 or less)
SC150BN
Excel Regular
Rhino Erosion King Straw Blanket (Double net high velocity straw blanket)
Landlok S1 (3:1 or less) (6 fps)
Landlok S2 (3:1 or less) (10 fps)
Contech SFB1
Contech SFB2
Contech SFB2BD
XCEL CS-3 All Natural
XCEL SR-1 (3:1 or less)
XCEL SR-1 All Natural (3:1 or less)
XCEL SS-2
XCEL SS-2 All Natural
XCEL SS-2 w/rapid go netting

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

Section 645 - continued

C. ITEM 645.22 - SLOPE STABILIZATION (STEEPER THAN 2:1)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 603-271-6476.

Note: Products in this category are also acceptable for use under Item 645.21

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex I
American Excelsior Company	Curlex II
American Excelsior Company	Curlex Quickgrass
East Coast Erosion Blankets, LLC	ECSC-2
Greenfix America	C4
Greenfix America	C7
Greenfix America	CF072B
Greenfix America	CF072RR
Greenfix America	CFS072B
Greenfix America	CFS072R
Greenfix America	WS072
Greenfix America	WS072B
Hydrograss Corp. Com	Straw Erosion Blanket II BN
North American Green	C125
North American Green	C125BN
North American Green	SC150
North American Green	SC150BN
PPS Packaging Co. (Western Excelsior)	Excel Super Duty
PPS Packaging Co. (Western Excelsior)	Excel Superior
SI Geosolutions (formerly Bonterra America)	Landlok CS2
Verdyol Plant Reasearch, LTD	Contech CFB2
Verdyol Plant Reasearch, LTD	Contech CFB2BD
Verdyol Plant Reasearch, LTD	Contech SCFB2
Verdyol Plant Reasearch, LTD	Contech SCFB2B
Western Excelsior Corporation	XCEL CC-4
Western Excelsior Corporation	XCEL CC-4 All Natural
Western Excelsior Corporation	XCEL CS-3
Western Excelsior Corporation	XCEL CS-3 All Natural

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer. These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

D. ITEM 645.23 - CHANNEL STABILIZATION (LOW VELOCITY)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 603-271-6476.

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex I (5 fps max.)
American Excelsior Company	Curlex II (7 fps max.)
American Excelsior Company	Curlex Quickgrass (5 fps max.)
Greenfix America	WS05 (6 fps max.)
Greenfix America	WS052 (8 fps max.)
Greenfix America	WS072 (9 fps max.)
Greenfix America	WS072B (9 fps max.)
Hydrograss Corp. Com	Straw Erosion Blanket II BN
Indian Valley Industries, Inc.	Sedimat
North American Green	SC150 (8 fps max.)
North American Green	SC150BN (8 fps max.)
PPS Packaging Co. (Western Excelsior)	Excel Regular (5 fps max.)
PPS Packaging Co. (Western Excelsior)	Excel Superior (7 fps max.)
Synthetic Industries	Landlok 407 GR (5 fps max.)
Verdyol Plant Reasearch, LTD	Contech CFB2(12fps)
Verdyol Plant Reasearch, LTD	Contech SCFB2(10 fps)
Verdyol Plant Reasearch, LTD	Contech SCFB2B (10 fps)
Western Excelsior Corporation	XCEL CS-3
Western Excelsior Corporation	XCEL CS-3 All Natural
Western Excelsior Corporation	XCEL R-1 Green Dyed (5fps max)

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer. These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

Section 645 - continued

E. ITEM 645.24 - CHANNEL STABILIZATION (HIGH VELOCITY)

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 603-271-6476.

Note: Products in this category are also acceptable for use under Item 645.23

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex III (HV) (10 fps max)
Greenfix America	C4 (10 fps max.)
Greenfix America	C7 (10 fps max.)
Greenfix America	CF072B (14 fps max.)
Greenfix America	CFS072B (10 fps max.)
Greenfix America	CFS072R (10 fps max.)
Greenfix America	CFS072RR (14 fps max.)
North American Green	C125 (10 fps max.)
North American Green	C125BN (10 fps max.)
PPS Packaging Co. (Western Excelsior)	Excel Superduty (12 fps max.)
SI Geosolutions (formerly Bonterra America)	Landlok C2 (15 fps max.)
Verdyol Plant Research, LTD	Contech CF4
Verdyol Plant Research, LTD	Contech CF7
Verdyol Plant Research, LTD	Contech CF9
Verdyol Plant Research, LTD	Contech CFB2 (12 fps)
Western Excelsior Corporation	XCEL CC-4

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer. These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

F. ITEM 645.25 - PERMANENT STABILIZATION

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 603-271-6476.

<u>Manufacturer:</u>	<u>Product:</u>
Colbond Geosynthetics	Enkamat 7010 (Slopes & Channels)
Colbond Geosynthetics	Enkamat 7020 (Slopes & Channels)
North American Green	C350 (10-18 fps)
North American Green	P300 (9-14 fps)
PPS Packaging Co. (Western Excelsior)	Excel Permamat-100 (Slopes & 7-12 fps Channels)
PPS Packaging Co. (Western Excelsior)	Excel Permamat-200F (Slopes & 7-12 fps Channels)
Synthetic Industries	Contech TRM C-35
Synthetic Industries	Contech TRM C-45
Synthetic Industries	Contech TRM C-50
Synthetic Industries	Contech TRM C-60
Synthetic Industries	Contech TRM C-61
Synthetic Industries	LandLok TRM1060 (8-20 fps)
Synthetic Industries	LandLok TRM450 (8-18 fps)
Synthetic Industries	Pyramat
Webtec, Inc.	Terra Jute (Slopes)
Western Excelsior Corporation	XCEL PP-5-10
Western Excelsior Corporation	XCEL PP-5-12

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer. These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

G. ITEM 645.531 - SILT FENCE

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 603-271-6476.

Note: In addition to those products meeting NHDOT specifications under this category, the following products are qualified for use:

<u>Manufacturer:</u>	<u>Product:</u>
Environmental Research Corp.	BioFence

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer. These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

Section 645 - continued

H. TACKIFIERS

For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 603-271-6476.

Manufacturer:

Acadia Eco-Products
CHEMSTAR
CHEMSTAR
Eastern Products, Inc.
Eastern Products, Inc.
Erosion Control Technologies
Reinco Inc.

Product:

Earth Bond
StarTak 100
StarTak 600
Ecotak OP
Ecotak Sat
EC3000
Reinco RMBplus

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer. These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

SECTION 718 – RETROREFLECTIVE SHEETING

A. RETROREFLECTIVE SHEETING

Contact Traffic Bureau (603-271-2291) for a listing of qualified products.